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CLAIMS

1. A charging device comprising:

an assembled battery having plural secondary batteries serially connected;

a charge power source unit for supplying charging current to both ends of the assembled battery having said plural secondary batteries serially connected;

plural charge controllers connected to both ends of the respective secondary batteries of said plural secondary batteries,

wherein said charge power source unit comprises:

a charging current output unit for outputting charging current to said assembled battery; and

a control unit for controlling the current of said charging current output unit based on notification of bypass current from said charge controllers, and each of said plural charge controllers comprises:

a current control unit for bypassing the current that flows to said secondary battery when the terminal voltage of said secondary battery reaches a preset voltage value; and

a notification unit for notifying the control unit of said charge power source unit of said bypass current.

- 2. The charging device according to claim 1, wherein said charging current output unit is a power source according to the constant current charging technique.
- 3. The charging device according to claim 1, wherein said control unit controls an output current of said charging current output unit so that the smallest current among the

plural bypass currents notified from said plural charge controllers is approximately zero.

- 4. The charging device according to claim 1, wherein said control unit controls an output current of said charging current output unit so that, in the case where the plural bypass currents notified from said plural charge controllers are at or above a preset threshold bypass current value, said plural bypass currents become at or below said threshold bypass current value.
- 5. The charging device according to claim 1, wherein said notification unit
 10 provides notification of the between-terminal voltages of said secondary batteries
 together with said bypass currents to said control unit of said charge power source unit,
 and said control unit increases the output current of said charging current output unit in
 the case where said between-terminal voltages of said secondary batteries are lower than
 a presetting value.

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6. The charging device according to claim 1, wherein said current control unit discharges said secondary batteries so that the between-terminal voltages of said secondary batteries are lowered to the prescribed voltage in the case where said between-terminal voltages of said secondary batteries were above said prescribed voltage at the start of charging.